			MASTER SYMBOL LIST		
	LIGHTING FIXTURES		EQUIPMENT		DESIGNATIONS
0	FLUORESCENT: SURFACE		SWITCHBOARD	F1	
	FLUORESCENT: RECESSED, FLANGED MOUNTING GEAR		PANELBOARD - SURFACE MOUNTED	80 3	LIGHTING FIXTURE: F1 = TYPE, 80 = WATTS, 3 = QTY.
	FLUORESCENT: RECESSED, LAY IN		PANELBOARD - FLUSH MOUNTED		TYPES:
0 0	FLUORESCENT: SUPENDED	▽	TRANSFORMER		
Ю	FLUORESCENT: OPEN STRIP		RELAY		
0	INCAND, HID OR MINIFLUOR - SURFACE		CONTACTOR	1	SHEET NOTE
. 0	OR RECESSED		COMBINATION MAGNETIC STARTER/DISCONNECT	AC	
Ю	INCAND, HID OR MINIFLUOR: WALL OR BUILDING MOUNTED	N	NON-FUSIBLE DISCONNECT SWITCH	1	MECHANICAL EQUIPMENT
0	INCAND, HID OR MINIFLUOR: WALL WASH	F	FUSIBLE DISCONNECT SWITCH	1A,2B	SIGNAL CIRCUITING: 1A = 1-TYPE 'A', 2B = 2-TYPE 'B'.
©	INCAND LOW VOLTAGE: SURFACE OR RECESSED		PULLBOX - SIZE AS INDICATED ON PLANS		SEE SCHEDULE FOR TYPES.
(<u>0</u>)	CHANDELIER: PROVIDE 5X STRUCTURAL BACKING	J.	JUNCTION BOX - SIZE AS REQUIRED BY NEC	ACB	ABBREVIATIONS
1 1	SPOTLIGHT: TRACK MOUNTED (TRACK LENGTHS		PLUG MOLD SURFACE RACEWAY AND DEVICES	ACB AF	ADJUSTABLE CIRCUIT BREAKER AMP FRAME
\ \ 	AS INDICATED WITH FITTINGS AND CONNECTORS AS REQUIRED)	TP	TELEPOWER POLE	C	CONDUIT: WITH PULLCORD IF OTHERWISE EMPTY
Q	SPOTLIGHT: J-BOX MOUNTED		CIRCUITING	СВ	CIRCUIT BREAKER
×	POLE OR POST MOUNTED LUMINAIRE		IN WALL OR ABOVE CEILING	CLG	CEILING
○ □-	POLE OR POST MOUNTED CUTOFF LUMINAIRE		IN FLOOR OR BELOW GRADE		EXISTING
\Box	EMERGENCY LIGHTING UNIT: MOUNT AT 12"	—он—	OVERHEAD SERVICE	(E) ECB	ELECTRONIC CIRCUIT BREAKER
	BELOW CEILING	— P —	PRIMARY	FACP	FIRE ALARM CONTROL PANEL
0	EMERGENCY LIGHTING UNIT: RECESSED CEILING MOUNTED	-s-	SECONDARY	FBO	FURNISHED BY OTHERS
	EXIT LIGHT: FACES AND ARROWS AS INCICATED ON PLANS	—т—	TELEPHONE	FLUOR	FLUORESCENT
	LOW LEVEL EXIT LIGHT: MOUNT AT +6" TO	—TV—	TELEVISION	FU	FUSE: DUAL-ELEMENT, TIME DELAY
	8" AFF UON, 4" MIN. OFF DOOR FRAME	<u> </u>	CONTROL CIRCUITNG	GFCI	GROUND FAULT CIRCUIT INTERRUPT
	RECEPTACLES	─	STUB OUT: MARK AND CAP	GND	GROUND
\Rightarrow	DUPLEX: 20A, 125V, NEMA 5-20, +18" AFF		CIRCUITING UP OR DOWN	HOA	HAND-OFF-AUTOMATIC
—	DOUBLE DUPLEX: 20A, 125V, NEMA 5-20		TICS = No. OF #12 WIRES IF MORE THAN TWO ——→ = INSULATED GREEN GROUND WIRE	HID	HIGH INTENSITY DISCHARGE
=	HALF SWITCHED DUPLEX: 20A, 125V, NEMA 5-20 (TOP HALF SWITCHED)	- +///-	HOMERUN = 1/2" C. UON, 4-#12 TO PANEL 'A',	IG	ISOLATED GROUND
E	DUPLEX GFCI: 20A, 125V, GFCI, NEMA 5-20 GFR	A-1,3,5	CIRCUITS No. 1,3 AND 5	INCAND	INCANDESCENT
<u> </u>	DUPLEX I.G.: 20A, 125V, ISO. GND., NEMA 5-20 IG		FIRE ALARM	K	kcmil (300K = 300 kcmil)
	(ORANGE DEVICE AND FACEPLATE)		CONTROL EQUIPMENT: FLUSH MOUNTED	LTG	LIGHTING
\ominus	SPECIAL RECEPTACLE - AS INDICATED ON PLANS		CONTROL EQUIPMENT: SURFACE MOUNTED	LV	LOW VOLTAGE
Ю	CLOCK HANGER: MOUNTED AT +80" AFF UON	MP	MANUAL PULL STATION: AT +48" TO TOP UON	MCB	MAIN CIRCUIT BREAKER
	SIGNAL OUTLETS	FS	FIRE SPRINKLER FLOW SWITCH	NACB	NON-ADJUSTABLE CIRCUIT BREAKER
CAT 3 (1)	TELEPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON	TS	FIRE SPRINKLER TAMPER SWITCH	NEUT	NEUTRAL
CAT 5 (2)	DATA: 4S BOX WITH SINGLE GANG MUD RING UON,	SD	SMOKE DETECTOR: CEILING MOUNTED	NIC	NOT IN CONTRACT
CAT 3 (1)	+18" AFF UON	(HD)	135^ HEAT DETECTOR: CEILING MOUNTED	NL	NIGHT LIGHT
CAT 5 V (2)	VOICE/DATA: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON	(HH)	190^ HEAT DETECTOR: CEILING MOUNTED	PCB	POWER CIRCUIT BREAKER
₩	TELEVISION: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON	- RR	RATE OF RISE HEAT DETECTOR: CEILING MOUNTED DUCT SMOKE DETECTORS WITH RELAY BASE	PNL	PANEL
© ^Δ	CAMERA: 4S BOX WITH SINGLE GANG MUD RING UON,	DD	1 AT SUPPLY, 1 AT RETURN	(R)	EXISTING TO BE REMOVED
	CEILING MOUNTED UON	KH	HOOD FIRE SUPPRESSION SYSTEM CONNECTION	RGS	RIGID GALVANIZED STEEL
M	MICROPHONE: 4S BOX WITH SINGLE GANG MUD RING UON, +18" AFF UON	⟨10 ⟩	LOCAL-ONLY SMOKE DETECTOR: 120V, INTEGRAL BATTERY, ALARM HORN, WALL MOUNT AT 12"	so	SEAL OFF
\bigcirc	VOLUME CONTROL: 4S BOX WITH SINGLE GANG MUD RING		BELOW CEILING	SPDT	SINGLE POLE DOUBLE THROW
	UON, +48" TO TOP UON	(ov)	LOCAL-ONLY SMOKE DETECTOR: 120V, INTEGRAL BATTERY, ALARM HORN, ADA STROBE, WALL MOUNT	SPEN	SIZE PER EQUIPMENT NAMEPLATE
S	SPEAKER: 8" COAXIAL WITH BACK BOX AND GRILLE, CEILING MOUNTED UON		AT 12" BELOW CEILING	TYP	TYPICAL
	SWITCHES	(HS)	HORN AND ADA STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON	UG	UNDER GROUND
S	SINGLE POLE: 20A, 120/277V, +48" TO TOP UON		SPEAKER AND ADA STROBE: WALL MOUNT	UNSW	UNSWITCHED
S ₂	TWO POLE: 20A, 120/277V, +48" TO TOP UON	SS >	AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON	UON	UNLESS OTHERWISE NOTED
S_3	THREE WAY: 20A, 120/277V, +48" TO TOP UON	ST >	ADA STROBE: WALL MOUNT AT LOWER OF 80" AFF OR 6" BELOW CEILING, UON	WP	WEATHER PROOF (NEMA 3R)
S ₄	FOUR WAY: 20A, 120/277V, +48" TO TOP UON	(AB)	BUILDING MOUNTED ALARM BELL PER LOCAL CODE	XFMR	TRANSFORMER
S _X	'X' INDICATES EMERGENCY CIRCUIT	AL>	REMOTE ALARM LAMP		METHODS
S _P	'P' INDICATES PILOT LIGHT (LIGHTED WHEN "ON")		MAGNETIC DOOR HOLDER: SYSTEM POWERED AND	, s _x	SHADING INDICATES: FIXTURE, OUTLET, EQUIPMENT, ETC. ON EMERGENCY 'X' OR NIGHT LIGHT 'NL' CIRCUIT
S _K	'K' INDICATES KEY OPERATED SWITCH		CONTROLLED UON, MOUNTING PER PLANS	□ , ⊖ ,	
S _M	MANUAL MOTOR STARTER: 20A, 120/277V, POLES	(FP)	FIREMANS PHONE: MOUNTED AT +48" TO TOP UON	<u>ss</u> ⊕	DEVICE MOUNTED IN MULTIPLE UNDER COMMON COVER MAXIMUM HEIGHT ON WALL SHALL BE +48" TO TOP UON
e	AND HEATERS AS REQUIRED MOMENTARY CONTACT: 20A 120/277V SPDT CENTER	J.	FIRE ALARM JUNCTION BOX		DEVICES MOUNTED IN OR ABOVE BACKSPLASH:
S _{MC}	MOMENTARY CONTACT: 20A, 120/277V, SPDT CENTER NORMALLY OFF UON, +48" TO TOP UON	\square R	RELAY BASE		MAXIMUM HEIGHT ON WALLS SHALL BE +48" TO TOP UON
D	DIMMER: 600 WATT UON, ELECTRONIC SLIDER, WITH ON/OFF TOGGLE, +48" TO TOP UON (PLANS SHALL	(T)	MISCELLANEOUS THERMOSTAT: AT +48" TO TOP UON (PER MECHANICAL		FLUSH FLOOR MOUNTED WIRING DEVICES FLUSH FLOOR MOUNTED WIRING DEVICES IN SINGLE MULTI-
	INDICATE TYPE: FLUOR, INCAND OR LOW-VOLTAGE)		PLANS)	411.414	COMPARTMENT BOX
$S_{o} S_{o_{2}} S_{o_{D}} S_{v}$	MOTION/OCCUPANCY/VACANCY SENSOR SWITCH WITH OFF- AUTO SELECTOR, SINGLE RELAY, DUAL RELAY, DIMMING	f /	EXHAUST FAN: FRACTIONAL HORSEPOWER	# ♦ ⊙	RECEPTACLE MOUNTED IN CEILING OR CASEWORK
(O)+ (O)	MOTION/OCCUPANCY SENSOR, WALL/CEILING MOUNTED	1)	MOTOR: NUMBER = HORSEPOWER		FINE DASHING INDICATES EXISTING EQUIPMENT AND DEVICES TO BE REMOVED
PE	PHOTO ELECTRIC SWITCH: 1600VA UON		SIGNAGE CONNECTION	 -()- 	
		- H	SHUNT TRIP STATION: AT +7'-6" AFF UON		
		● H	CONTROL STATION: AT +48" TO TOP UON		

ADDITIONAL SYMBOLS:		

GENERAL NOTES ITEM DESCRIPTION ITEM DESCRIPTION STANDARDS AND CODES: ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CIRCUITING: ALL WIRING SHALL BE IN CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AS WELL AS ALL APPLICABLE STATE AND SET SCREW INSULATED-THROAT FITTINGS MAY BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. LOCAL CODES AND ORDINANCES. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM -24". WRAPPED RIGID ELBOWS AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, RISERS SHALL BE USED FOR ALL THROUGH-GRADE TRANSITIONS AND STUB-UPS. RGS OR IMC CONDUIT LAWS, REGULATIONS AND CODES. WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. ARMOR-CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR SINGLE COMPLETE INSTALLATION: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, ACCESSORIES, ETC., CIRCUIT BRANCH CIRCUITING, FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN NECESSARY TO ACCOMPLISH A COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE PLANS CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS. ENT IS NOT ALLOWED. CONNECT TOGETHER WITH THE SPECIFICATIONS. RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE PULL CORD IF OTHERWISE EMPTY. <u>PERMITS:</u> OBTAIN AND PAY FOR ALL BUILDING AND WORKING PERMITS AND INSPECTION FEES REQUIRED WIRING: WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG. WHERE ALUMINUM IS ALLOWED, WIRE SHALL BE TERMINATED IN AN INSULATED CU/AL RATED COMPRESSION TERMINAL FITTING (MAC-ADAPT OR EQUAL). INSULATION SHALL BE THW, THWN OR THHN. DRAWINGS: DATA PRESENTED ON THESE DRAWINGS SHALL BE FIELD VERIFIED SINCE ALL DIMENSIONS, LOCATIONS, AND LEVELS ARE GOVERNED BY ACTUAL FIELD CONDITIONS. REVIEW ALL ARCHITECTURAL, STRUCTURAL, CIVIL, MECHANICAL AND SPECIALTY SYSTEMS DRAWINGS AND ADJUST ALL WORK TO MEET 16.18 FUSES: FUSES SHALL BE SIZED PER ACTUAL NAMEPLATE OF EQUIPMENT SERVED. FUSES SHALL BE DUAL-ELEMENT, CURRENT-LIMITING, AND SHALL BE INTERCHANGEABLE BETWEEN FRAME SIZES WITH THE REQUIREMENTS ON CONDITIONS SHOWN THEREON, DO NOT SCALE ELECTRICAL PLANS FOR FIXTURE, DEVICE OR APPLIANCE LOCATIONS. USE CONFIGURED DIMENSIONS IF GIVEN OR CHECK ARCHITECTURAL STANDARD FACTORY FUSE REDUCERS. FUSES SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: OR MECHANICAL DRAWINGS. CIRCUITS 601 TO 6000 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMAN COPYRIGHT: THESE PLANS, SPECIFICATIONS AND ALL RELATED ADDENDA AND DOCUMENTS LOW-PEAK TIME-DELAY FUSES KRP-C - UL CLASS L. CONSTITUTE COPYRIGHT MATERIALS OF RELIANCE ENGINEERING ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO RELIANCE ENGINEERING THESE MATERIALS CIRCUITS 0 TO 600 AMPERES SHALL BE PROTECTED BY CURRENT LIMITING BUSSMAN LOW-PEAK SHALL REMAIN THE SOLE PROPERTY OF RELIANCE ENGINEERING AND MAY NOT BE REPRODUCED, DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) - UL CLASS RK1. DISTRIBUTED TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN ALL INDIVIDUAL MOTOR CIRCUITS RATED 480 AMPERES OR LESS SHALL BE PROTECTED BY CONSENT OF RELIANCE ENGINEERING BUSSMAN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS) OR LPS-RK (600 VOLTS) -LOCATIONS: INDICATED LOCATIONS OF ALL OUTLETS AND EQUIPMENT ARE SUBJECT TO CHANGE. UL CLASS RK1 OR L. SHIFT/RELOCATE/RECONFIGURE ANY OUTLET, EQUIPMENT OR CONNECTION POINT UP TO 10' AS DIRECTED BY ENGINEER, AT NO ADDED COST. CIRCUIT BREAKER PANELS SHALL BE PROTECTED BY BUSSMAN LOW-PEAK DUAL-ELEMENT FUSES LPN-RK (250 VOLTS), LPS-RK (600 VOLTS) OR BUSSMAN LOW-PEAK KRP-C TIME-DELAY AS-BUILT DRAWINGS: CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, FUSES - UL CLASS RK1 OR L. ONE SET OF REVISED AS-BUILT ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM INDICATING THE FOLLOWING ADDITIONAL INFORMATION: ALL DUAL-ELEMENT FUSES SHALL HAVE SEPARATE OVERLOAD AND SHORT-CIRCUIT ELEMENTS. PROVIDE SPARE FUSE CABINET AFTER THE COMPLETION OF THE PROJECT WITH ONE SET OF EXACT ROUTING OF ALL CONDUITS LARGER THAN 1". EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS. SPARE FUSES FOR EVERY SIZE USED. CONTRACTORS NAME, ADDRESS AND TELEPHONE NUMBER. UTILITY SERVICES: PROVIDE POWER AND COMMUNICATIONS SYSTEM SERVICES IN ACCORDANCE WITH THE AS-BUILT NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE REQUIREMENTS OF THE SERVING UTILITIES. PROVIDE EXCAVATION, RACEWAY, STRUCTURES, GROUNDING, ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS ETC. AS DIRECTED. POWER SERVICES AND DISTRIBUTION SYSTEM AIC RATING SHALL EXCEED MAXIMUM AVAILABLE FAULT CURRENT THROUGH UTILITY SERVICE TRANSFORMER. CONTACT SERVING UTILITIES AND OBTAIN THEIR REQUIREMENTS PRIOR TO BID. (UTILITY SERVICE AND LINE EXTENSION CHARGES PAID BY EXAMINATION OF SITE AND EXISTING CONDITIONS: BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH THE EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF 16.20 TEMPORARY CONSTRUCTION POWER: PROVIDE TEMPORARY ELECTRICAL POWER AND LIGHTING FOR ALL WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. TRADES THAT REQUIRE SERVICE DURING THE COURSE OF THIS PROJECT. PROVIDE TEMPORARY SERVICE ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT AND DISTRIBUTION AS REQUIRED. COMPLY WITH THE CEC AND OSHA REQUIREMENTS. THE SITE SHALL BE CALLED TO THE ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL. (ENERGY COSTS BY OTHERS). TESTING: PRIOR TO PLACING IN SERVICE, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, 16.21 SUBMITTALS: BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, SWITCHGEAR, PANELS, MOTOR CONTROLLERS, WIRING GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD. DEVICES, ETC. PROPOSED FOR THIS PROJECT. GROUNDING: GROUND ALL EQUIPMENT AND SYSTEM NEUTRAL IN ACCORDANCE WITH ARTICLE 250 OF SUBSTITUTIONS: PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL THE NEC. EQUIPMENT GROUNDS HAVE NOT BEEN SHOWN ON DRAWINGS - WHERE GROUND WIRES RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE HAVE BEEN SHOWN THEY INDICATE AN INSULATED GROUND. SUBMITTED A MINIMUM OF 10 WORKING DAY PRIOR TO BID FOR CONSIDERATION. EQUIPMENT STANDARDS: ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST 16.23 IDENTIFICATION: PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: SPECIFICATION GRADE WITH NYLON PLATES, IVORY UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS. DESIGNATION (i.e. PANEL A) FUNCTION (i.e. AIR HANDLER AH-1) TAMPER-PROOF: ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-VOLTAGE, PHASE, WIRE (i.e. 480 VOLT, 3Ø, 4W.) PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE. FEEDER SIZE (i.e. 4-#4/0 THWN CU IN 2" C.) SOURCE (i.e. SWITCHBOARD MSB) DISTRIBUTION EQUIPMENT: DISTRIBUTION EQUIPMENT SHALL BE DEAD-FRONT, PANELBOARD OR SWITCHBOARD TYPE AS INDICATED, UL-LABELED AND ENCLOSED IN A NEMA HOUSING APPROPRIATE NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON TO ITS LOCATION AND APPLICATION WITH HINGED WIREWAY COVERS. BUSSING, DEVICE FINGERS AND RED FOR EMERGENCY EQUIPMENT. LUGS SHALL BE COPPER UNLESS INDICATED ON DRAWINGS. AIC RATINGS SHOWN ON PLANS ARE MINIMUM RATINGS, CIRCUIT BREAKERS SHALL BE IN EXCESS OF THE AVAILABLE FAULT CURRENT. 16.24 GUARANTEE: THE COMPLETE ELECTRICAL SYSTEM, AND ALL PORTIONS THEREOF, SHALL BE SERIES-RATING OF UPSTREAM AND DOWNSTREAM CIRCUIT BREAKERS TO ACHIEVE REQUIRED FAULT GUARANTEED TO BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE CURRENT RATINGS IS PROHIBITED UNLESS APPROVED BY ENGINEER IN WRITING. YEAR FROM DATE OF FINAL ACCEPTANCE. PROMPTLY REMEDY SUCH DEFECTS AND ANY SUBSEQUENT DAMAGE CAUSED BY THE DEFECTS OR REPAIR THEREOF AT NO EXPENSE TO THE OWNER. LAMPS ARE PANELBOARDS: PANELS SHALL HAVE FLUSH MONO-FLAT TRIM. LOCKING DOOR-IN-DOOR HINGED EXEMPT FROM THIS GUARANTEE, BUT SHALL BE NEW AT TIME OF FINAL ACCEPTANCE. COVERS AND BOLT-ON CIRCUIT BREAKERS. FLUSH-MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: ONE 1" CONDUIT FOR EACH FOUR SPARE/SPACE CIRCUITS. PROVIDE ONE TYPED AND ONE SPARE PANEL SCHEDULE FOR OWNER'S USE. SCHEDULES SHALL BE TWO COLUMN TYPE WITH ODD CIRCUIT NUMBERS ON THE LEFT AND EVEN NUMBERS ON THE RIGHT. TRANSFORMERS: TRANSFORMERS SHALL BE SELF VENTILATED DRY-TYPE UNLESS INDICATED OTHERWISE AND SHALL BE UL LISTED AS SUITABLE FOR INSTALLATION IN INTERIOR LOCATIONS. INSULATION SHALL BE MINIMUM 220 DEGREE CELSIUS OPERATION - TEMPERATURE RISE SHALL BE MINIMUM 115 DEGREES CELSIUS. PROVIDE SIX 2 1/2% VOLTAGE ADJUSTING TAPS - TWO ABOVE AND FOUR BELOW RATED PRIMARY VOLTAGE. IMPEDANCE FOR UNITS ABOVE 15KVA SHALL BE MINIMUM 3%. TRANSFORMERS SHALL BE CONNECTED WITH SEALTIGHT FLEXIBLE CONDUIT WITH SEPARATE INTERNAL GROUND WIRE.

	DRAWING SCHEDULE	:	<u> </u>
SHEET	DESCRIPTION	Issued For Building Permit	
E1.0	SYMBOL LIST, SPECIFICATIONS, DRAWING SCHEDULE	•	
E2.0	ROOF ELECTRICAL PLAN	•	
E3.0	POWER DISTRIBUTION DIAGRAM, PANEL SCHEDULE	•	
		•	
		•	

PETER J. MOKLER & ASSOCIATES, INC.

PLANNING ARCHITECTURE INTERIOR

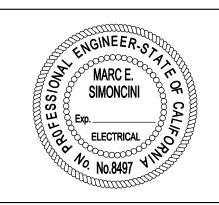
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D.

C JOB NAME AND ADDRESS

MONO COUNTY OFFICE IMPROVEMENTS

SIERRA CENTER MALL SPACES 208 & 306 452 OLD MAMMOTH ROAD MAMMOTH LAKES, CALIFORNIA

DAVE WALBRECHT, CAO
COUNTY OF MONO
P.O. BOX 2415
452 OLD MAMMOTH ROAD
MAMMOTH LAKES, CALIFORNIA 93546
PHONE: 924-1700

7/5/07 SUBMITTAL SET

MARK DATE DESCRIPTION

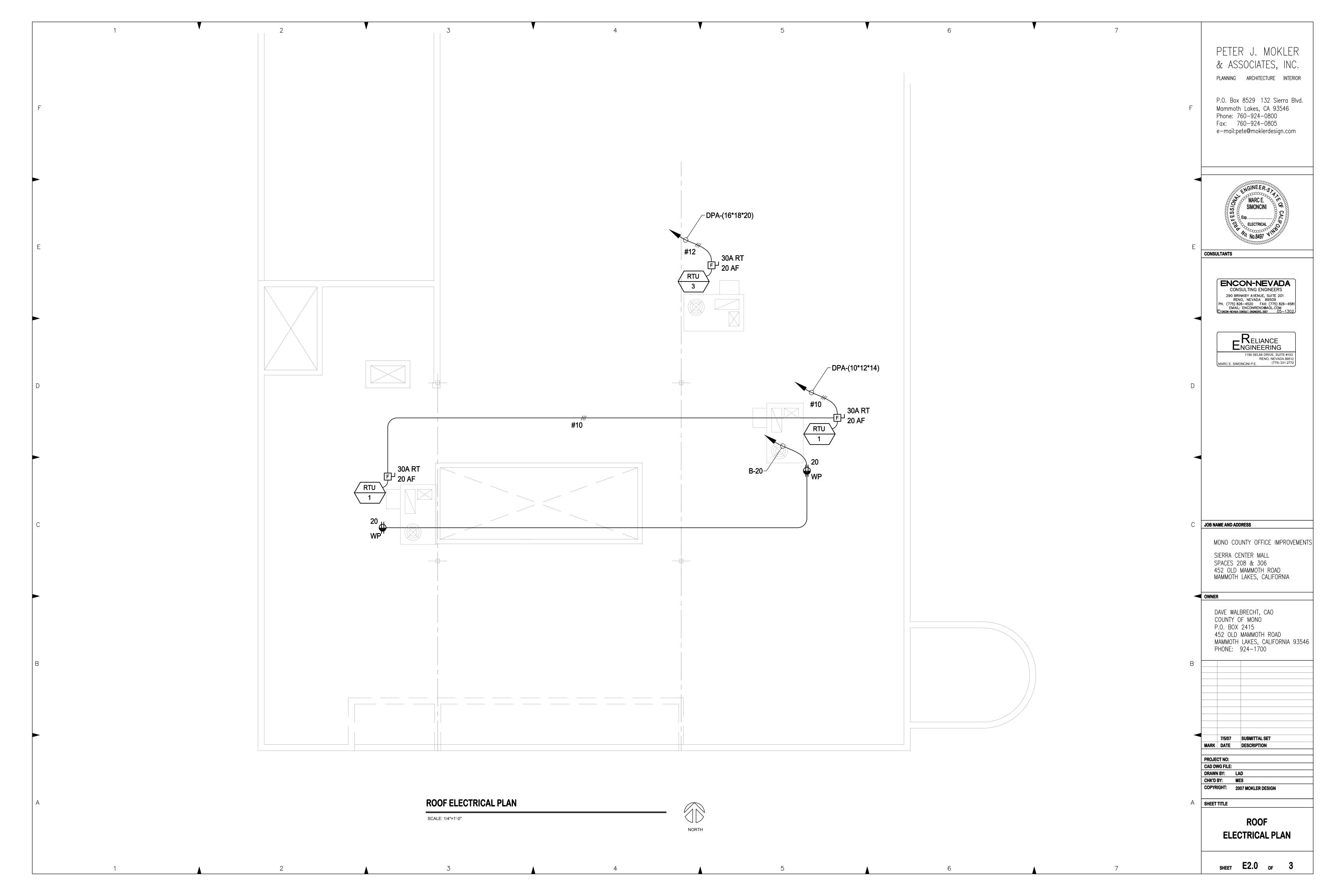
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CAD DWG FILE:
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CHK'D BY: MES

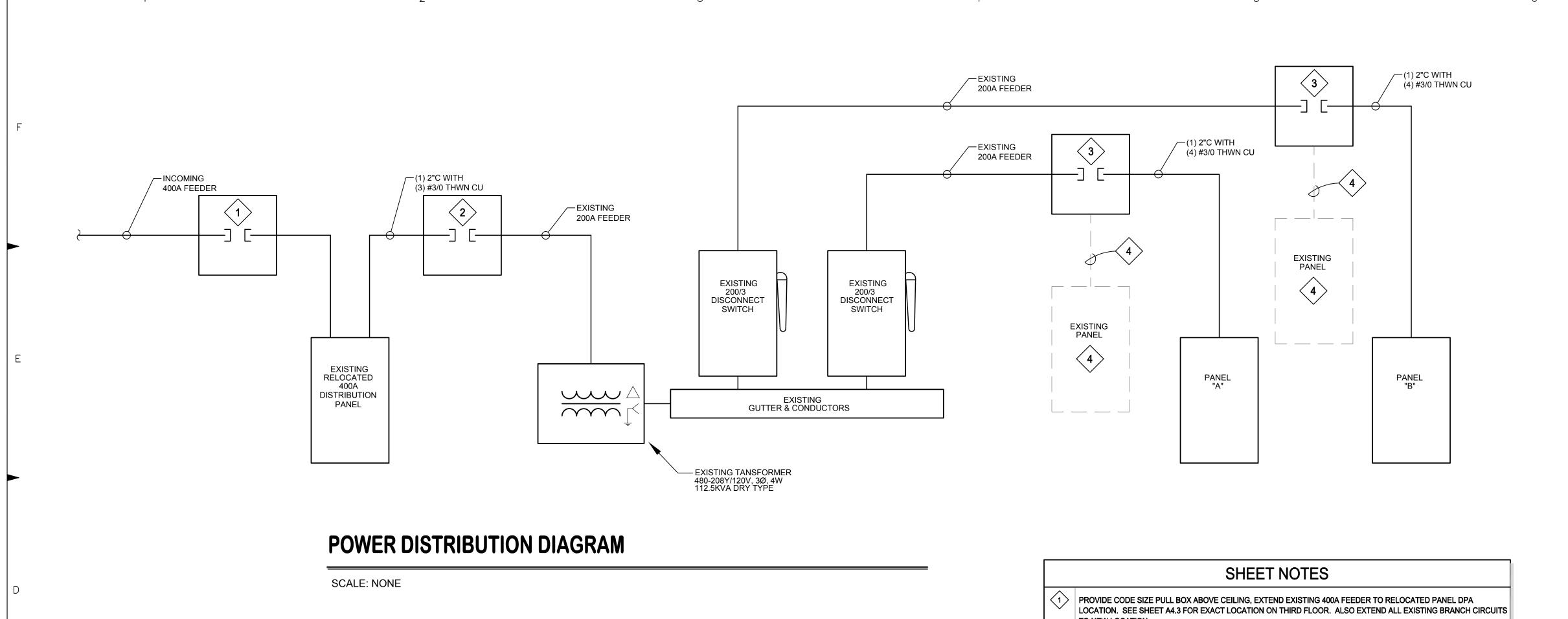
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SHEET TITLE

SYMBOL LIST
SPECIFICATIONS
DRAWING SCHEDULE

SHEET E1.0 OF 3





DIRECTORY	LOAD	СВ	CIRCUIT	СВ	LOAD	DIRECTOR	Y
XISTING LOADS			1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42	30/320/33	9,000	RTU-1 & RTU-2 RTU-3 EXISTING LOADS	
VOLTS	08Y/120V, 3@	0, 4W		D	• ALU • 200 • ISO	JMINUM TOTAL AMPS:	109 131 109 131

			PAN	۱E	EL '⁄	۲'					
DIRECTORY	LOAD	СВ	CIF	RC	UIT	СВ	LOAD	D DIRECTORY			
RECEPACLES - COPY 4	1,000	20/1	1 -	\vdash	-[:	2 20/1	1,200	RECEF	PTACLES - OFFICE 1, OFF	ICE 2	
RECEPACLES - OFFICE 3	1,000	20/1	3 -	+	-	4 20/1	1,200	RECEP	PTACLES - OFFICE 1, OFF	ICE 2, OFFICE 3	
RECEPACLES - OFFICE 3, FILES 5	1,000	20/1	5 -	- -	+ 1	3 20/1	1,200	RECEF	TACLES - RECEPTION 3		
COPY	3,000	30	7 →	⊢ ·	- - ;	3 20/1	1,200	RECEP	RECEPTACLES - CONFERENCE 12		
		/ 2		+	- - 1	20/1	1,200	RECEP	PTACLES - CONFERENCE	12, OFFICE 6	
NEW 30A	3,000		11 -	- -	 1:	2 20/1	1,200	RECEF	PTACLES - OFFICE 4, OFF	ICE 5, OFFICE 6	
		/ 2		<u> </u>	- - 1	4 20/1	1,200	RECEF	PTACLES - RECEPTION 3	COPY 4	
RECEPTACLES - OFFICE 3, OFFICE 4	1,000	20/1	15 -	+	- - 1		1,200	RECEP	PTACLES - COPY 4		
RECEPTACLES - OFFICE 4, OFFICE 5	1,000	20/1	17 -	- -	 1:	_	1,200	RECEP	PTACLES - COPY 4		
LIGHTING - SOUTH	1,200	20/1	19 →	H	- - 2)		SPACE			
LIGHTING - NORTH	1,200	20/1	21 -	+	- - 2						
SPARE		20/1	23 -	- -	 2						
			25 →	ŀ	- - 2	3					
			27 -	+	- - 2						
				-	 3)					
			31 →	H.	- - 3:	2					
			33 -	+	- - 3						
			35 -	·	 3						
			37 →	İ	- - 3	3					
			39 -	+	- - 4)					
			41 -	-	4	2					
VOLTS ○ 480Y/277V, 3Ø, 4W	Y/120V, 3@	5 4W	MT)·	\bigcirc 9	SURFAC	E • FLI	ISH	TOTAL KVA:	24.6	
AMPS 0 100A • 225A 0 400A	., 120 v, ox	·, ¬••	BUS			COPPER		JMINUM		68	
•••••	<u>`</u>								NET KVA:		
	\preceq $\overline{}$	•			NEUT: • STD					24.6	
AIC: $lacktriangle$ 10k $igcirc$ 25k $igcirc$ 35k $igcirc$	J <u>. </u>		GNI	J:	• (STD	\cup isc	LATED	NET AMPS:	68	
OTHER: O <u>.</u>			ENC	CL:	•	NEMA 1		MA 3R	LOCATION:	2ND FLOOR	

DIRECTORY	LOAD CB		B CIRCUIT		CB	LOAD	DIRECTORY			
RECEPTACLES - UNISEX 27, BREAK 26	1,000	20/1	1 —	2	20/1	1,200	RECEPT	ACLES - NETWORK 22		
RECEPTACLES - BREAK 26 1,500		20/1	3 -	4	20/1	1,500	RECEPT	ACLES - NETWORK 22	ETWORK 22	
RECEPTACLES - REFRIGERATOR 1,00		20/1	5	+ 6	20/1	1,200		ACLES - OFFICE 20, OF		
RECEPTACLES - MULTIPURPOSE 24	1,200	20/1	7 +	- - 8	20/1	1,200		ACLES - RECEPTION 1	5, CONFERENCE 1	
RECEPTACLES - MULTIPURPOSE 24	1,200	20/1	9 -	- - 10	20/1	1,000		RECEPTACLES - OFFICE 20		
RECEPTACLES - MULTIPURPOSE 24, OFFICE 21	1,200	20/1	11	12	20/1	1,200		ACLES - COPY 17		
LIGHTING - SOUTH	1,200	20/1	13 🕂	- - 14	20/1	1,200		RECEPTACLES - OFFICE 19		
LIGHTING - NORTH	1,200	20/1	15 -	16	20/1	1,200		ACLES - OFFICE 18		
SPACE			17	18	20/1	1,500		ACLES - OFFICE 13, RE	ECEPTION 15	
			19 —	20	20/1	1,000		ACLES - ROOF		
			21 -	22	20/1		SPARE			
			23	24						
			25	26						
			27 -	28						
			29	- 30 32						
			31 —							
			33 -	- 34						
			35	36						
			39 -	38 40						
			41	42						
			41 - -	7 42						
VOLTS ○ 480Y/277V, 3Ø, 4W ● 208Y	Y/120V, 3Ø	, 4W	MTD:	ા ડા	JRFACI	E • FLU	SH	TOTAL KVA:	2107	
AMPS ○ 100A ● 225A ○ 400A	○.		BUS:	\bigcirc co	PPER	ALU	IMINUM	TOTAL AMPS:	62	
MAIN OMCB • MLO OD/L	<u> </u>		NEUT:			O 2009		NET KVA:	2107	
AIC: ● 10k ○ 25k ○ 35k	~ 		GND:	์	_		LATED	NET AMPS:	62	

PROVIDE CODE SIZE PULL BOX ABOVE CEILING, SPLICE AND EXTEND 200A FEEDER TO EXISTING 112.5 KVA

REMOVE EXISTING PANELS AND ASSOCIATED WIRING AND CONDUIT ON EXISTING WALLS BEING REMOVED.

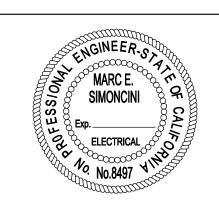
PROVIDE CODE SIZE PULL BOX ABOVE CEILING FOR EACH OF NEW PANELS A & B, EXTEND 200A FEEDER TO NEW RESPECTIVE PANEL LOCATION. SEE SHEET A4.2 & A4.3 FOR EXACT LOCATION ON SECOND AND THIRD FLOOR.

TRANSFORMER IN BASEMENT. SEE SHEET A4.1 FOR EXACT LOCATION IN BASEMENT.

PETER J. MOKLER & ASSOCIATES, INC.

PLANNING ARCHITECTURE INTERIOR

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CONSULTANTS





C JOB NAME AND ADDRESS

MONO COUNTY OFFICE IMPROVEMENTS SIERRA CENTER MALL SPACES 208 & 306

452 OLD MAMMOTH ROAD MAMMOTH LAKES, CALIFORNIA

─ OWNER

DAVE WALBRECHT, CAO COUNTY OF MONO P.O. BOX 2415 452 OLD MAMMOTH ROAD MAMMOTH LAKES, CALIFORNIA 93546 PHONE: 924-1700

7/5/07 SUBMITTAL SET MARK DATE DESCRIPTION

PROJECT NO:

CAD DWG FILE: DRAWN BY: LAD CHK'D BY: MES COPYRIGHT: 2007 MOKLER DESIGN

A SHEET TITLE

POWER DISTRIBUTION DIAGRAM PANEL SCHEDULES

SHEET E3.0 OF 3